

# Arbor Sightline

See Your Network. Solve Your Problems.  
Grow Your Business.

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## KEY BENEFITS

### Optimize Network Resources

Use comprehensive traffic, customer and geographic reports for smarter traffic engineering. Reduce transit costs, improve utilization and intelligently plan for the growth of your network.

### Serve the Business

Provide insights to the business leveraging built-in and ad hoc traffic and market reports. Uncover trends, including traffic intelligence and market breakdowns, to help the business grow and provide reporting to management.

### Minimize Downtime

Through proactive detection of network or service availability threats, quickly diagnose and prevent misconfigurations, flash crowds or malicious threats such as DDoS attacks from impacting availability.

### Launch Services

Leverage the same Arbor Sightline platform used for network perimeter visibility and threat detection to easily provision, deliver and maintain multi-tenant services such as DDoS Mitigation, Quality of Service (QoS) and MPLS/BGP VPNs.

### Gain Global Visibility

The ATLAS® Intelligence Feed (AIF) subscription for Arbor Sightline and Insight enhances your local traffic visibility with a global perspective.

### Automate Processes

RESTful APIs enable full integration with other operational systems so you can automate processes and drive more value from your network investments.

The dual forces of rapid growth in network data and costs and the loss of revenues to over-the-top (OTT) services are squeezing traditional Service Providers, while Enterprises with large networks are evolving operationally to resemble Service Providers. For all these network operators, solving key business problems starts with proper visibility. Built for owners of small to large and complex networks and proven to scale cost-effectively across an entire global footprint, Arbor Sightline collects and analyzes various forms of network telemetry from across the network, transforming raw traffic data into actionable operational insights that address business problems from network planning and engineering to service availability and enablement.

## Visibility and Analytics That Evolve with Your Business

As a network operator, you demand a solution that evolves with your business needs. Arbor Sightline has been evolving with operators for over two decades and continues to be the de facto platform for understanding how traffic is flowing through your network. Arbor Sightline addresses the following key business objectives:

### Gain Business Insights, Not Just Data

The network is the business. Operators must optimize resources to save money, but also mine traffic data to better understand the value of network connectivity. Arbor Sightline provides robust capabilities from network-wide capacity planning and managing overlay networks to comprehensive customer analytics. This pervasive network intelligence can also be leveraged to make routing and peering design decisions, lower transit costs and provide marketing insights.

### Keep the Network and Services Running

Time is money. Operators must quickly detect and resolve problems before they impact the business. Arbor Sightline can generate customer-oriented traffic analytics, detect potential outages from network hotspots, BGP hijacks, DDoS attack traffic or even network misconfiguration. Then, Arbor Sightline assists with root cause analysis to quickly identify and resolve issues, including DDoS attacks, and directly mitigate suspect traffic using a combination of BGP Flowspec, Blackholing, and ATLAS® Intelligence filter lists for blocking and automatic redirection to the Arbor Threat Mitigation System (TMS).

### Launch Revenue Generating Services

Growth is crucial. Operators must support and drive top-line growth. With Arbor Sightline, operators can propose new service offerings such as DDoS protection, customer-oriented traffic analytics, Quality of Service (QoS) and MPLS VPN services. Current investments and infrastructure can be utilized to quickly launch new services or enhance existing ones. The built-in portal, multi-tenant customer scoping and RESTful API help operationalize these new revenue-generating services quickly and efficiently.

### Sightline with Layer-7 Visibility

Leveraging NETSCOUT® Smart Data through InfiniStreamNG® integration, Sightline provides deep insight into the application layer, delivering over-the-top (OTT) traffic analysis across complex networks. Today, network optimization is not just about the total volume of network traffic; it is about delivering desired content most efficiently while minimizing peering and transit costs. Sightline allows network operators to understand where and how major content services are traversing the network in order to optimize both user experience and peering and transit relationships.

## Sightline With Sentinel

Sightline with Sentinel integrates network infrastructure defense functionality and orchestrated mitigation support to deliver unparalleled protection at a lower cost than any other solution. Sentinel enables you to fully operationalize Flowspec and orchestrate attack response using all your network resources (Flowspec, TMS, etc.). See all traffic matching each of your Flowspec rules network-wide with detailed reports from Sightline's single pane of glass. This visibility is crucial to identify and fix any over-blocking and mitigate any DDoS attack regardless of its size or complexity. Customizable Flowspec rulesets allow you to quickly operationalize what traffic to block, rate limit or pass into efficient workflow templates.

Sightline With Sentinel also provides a unique, fully integrated inter-network signaling mechanism that enables network operators to share attack data and coordinate defenses against DDoS attacks between networks, helping operators cooperate to stop DDoS attacks closer to their source and before they can cause more collateral damage.

Sightline With Sentinel uses AIF Smart Data to identify a broad range advanced cyber threats – such as infected hosts or IoT devices – at network scale. It can detect botnet hosts and other malware infections, enabling operators to pro-actively clean up the network and prevent future botnet attacks from impacting network services. It also adds additional value to managed security services at extremely low cost, greatly expanding the opportunity to grow security service revenue.

## Arbor Sightline Deployment Scaling

|   |            |
|---|------------|
| <b>BGP Routes (Unique)</b>                    | 25,000,000 |
| <b>Flows Per Second (Non-Sampled)</b>         | 48,000,000 |
| <b>Monitored Routers</b>                      | 5,000      |
| <b>Monitored Interfaces</b>                   | 200,000    |
| <b>Total Interfaces</b>                       | 550,000    |
| <b>Appliances/Virtual Machines</b>            | 150        |
| <b>Arbor APS Appliances (Cloud Signaling)</b> | 200        |
| <b>Arbor TMS Appliances (Managed)</b>         | 100        |
| <b>Data Handling Rules (Managed Objects)</b>  | 20,000     |

## Arbor Sightline Roles

| Role                                    | Capabilities (Per Instance)   |
|---|---|
| <b>Traffic, Routing, &amp; Analysis</b> | <ul style="list-style-type: none"> <li>Collects flows from up to 32 core routers or 100 edge routers in an Arbor Sightline deployment</li> </ul>  |
| <b>User Interface</b>                   | <ul style="list-style-type: none"> <li>Dedicated user interface for Sightline deployment management and reporting</li> <li>Supports up to 100 concurrent users or 700 per deployment</li> <li>Supports up to 200 Arbor AED / AED instances to receive Cloud Signaling™ from and is used for managed services, supporting multi-tenant customer portals, portal API and more concurrent users</li> </ul> |
| <b>Data Storage</b>                     | <ul style="list-style-type: none"> <li>Dedicated management platform for creating monitored and protected managed objects (customers, networks, resources)</li> <li>Each supports up to 1,000 Managed Objects (MOs)</li> </ul>  |

## ARBOR SIGHTLINE FLEX LICENSING OPTIONS

### Purchase

Purchase perpetual Arbor Sightline Flex Licenses as and when needed, then only pay annual Maintenance & Support going forward. Ideal for high-growth and CAPEX-centric network operators.

### Subscription

Pay an annual license subscription that includes Maintenance & Support. Great for OPEX-centric organizations adapting to rapidly changing market conditions and unpredictable growth needs.

## Arbor Sightline Virtual Machine Requirements

|                           | VMware                          | KVM            |
|---------------------------|---------------------------------|----------------|
| <b>Hypervisor</b>         | VMware Sphere v5.5, 6.0 and 6.5 | KVM QEMU v2.11 |
| <b>vCPUs</b>              | 16 to 32                        | 16 to 32       |
| <b>Network Interfaces</b> | 1 to 10                         | 1 to 10        |
| <b>Memory</b>             | 24 or 32GB                      | 24 or 32GB     |
| <b>Storage</b>            | 100GB min                       | 100GB min      |

Note: Consult the product documentation for specific recommendations.

## Arbor Sightline Appliances Specifications

|                              | SP 7500  |
|------------------------------|--|
| <b>Network Interfaces</b>    | 2 x 1/10 G (copper) via onboard interfaces and<br>4 x 1/10 G SFP/SFP+ (SFP+ for SR/LR only) via NIC  |
| <b>Embedded OS</b>           | ArbOS is Arbor's proprietary, embedded operating system, based on Linux  |
| <b>Full Disk Encryption</b>  | Optional Hardware Configuration  |
| <b>Rack Unit</b>             | 2 Rack Unit (2RU)  |
| <b>Dimensions</b>            | 3.45 in (876 mm) Height<br>17.14 in (435.4 mm) Width<br>20 in (508 mm) Depth   |
| <b>Weight</b>                | 44 lbs (20 kg)   |
| <b>Mounts</b>                | Standard 19 inches and 23 inches rack mountable  |
| <b>Power Rating</b>          | Redundant, load sharing and auto-sensing<br>850W dual power supplies;<br>AC: 100-240 VAC, 50/60 Hz, 10/5 Amp<br>DC: -40 to -72 V, 25/12.5 Amp  |
| <b>Operating Temperature</b> | 41 °F to 131 °F (-5 °C to 55 °C)   |
| <b>Operating Humidity</b>    | 95%, non-condensing at 23 °C (73 °F) to 40 °C (104 °F)   |
| <b>Regulatory Approvals</b>  | UL/cUL/EN/IEC 62368-1; EN 55032; EN 55035; CISPR 32, 35; ETSI EN 300 386; cULus Mark; IC ICES-003 Class A; EN 61000-3-2; EN 61000-3-3; EMC Directive 2014/30/EU; Low Voltage Directive 2014/35/EU; UL 60950-1 2nd edition/ CSA C22.2 No.60950-1-07 2nd Edition; FCC 47 CFR Parts 15, Class A; CB Certificate & Report including all international deviations; RoHS 2011/65/EU; Moroccan Conformity Mark; VCCI (Japan); BIS (India); CCC (China); RCM (Australia/New Zealand); KCC (South Korea); EAC-R Approval (Russia); South Africa LoA; Mexico (UL-CoC for Mexico); NEBS-ready |



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